

Second International Workshop on 5G Enabling Technologies for the Internet of Things (GET-IoT)



Co-located with European Wireless 2018, 2-4 May 2018, Catania, Italy

Scope of the workshop

The advent of the Internet of Things (IoT) is revolutionizing our lives provisioning a wide range of novel applications leveraging on ecosystems of “smart” and highly heterogeneous devices. The IoT is expected to provide unprecedented services based on the pervasive interaction with and between smart things based on current and novel technologies that enable true human-centric and connected machine-centric networks. In this scenario, where smart (mobile) things are equipped with sensing, actuation, and interaction capabilities, wireless and cellular technologies are gaining high momentum as communication means to enable the interactions between things and applications in the Cloud. However, as the IoT deployment pace accelerates, research efforts are needed to effectively enable IoT over fifth generation (5G) mobile networks. Key enabling technologies at the heart of the next generation 5G systems cover both short- and long-range communications. For the latter category Narrowband IoT (NB-IoT), LTE Cat-M1, LoRa, and Sigfox are of particular interest, whereas for the former Device-to-Device (D2D) communications and Bluetooth (Mesh or Bluetooth low energy – BLE) are the major players. All those technologies can guarantee suitable bit rates, delay, and power consumption typical of the IoT applications and services. Furthermore, Machine-Type Communications (MTC), millimeter Wave (mmWave), cognitive radio, mobile edge computing, Software Defined Networking (SDN), and Network Function Virtualization (NFV) are all expected to play a fundamental role for the IoT in future 5G systems. Submitted papers to this workshop are expected to focus on state-of-the-art research in various aspects of IoT and 5G systems from academics and industry viewpoints. The aim is to offer a venue on the recent advances in theory, application, standardization and implementation of 5G technologies in IoT scenarios.

Topics of interest are (but not limited to)

- 5G enabling technologies for the IoT
- Mobility of smart objects in 5G systems
- Radio resource management for NB-IoT bands
- Testbed development and real-world deployment of IoT use cases in 5G networks
- Short-range communications (i.e., D2D or Bluetooth) in IoT scenarios
- Long-range communications (i.e., NB-IoT, LTE Cat-M1, LoRa, Sigfox) in IoT scenarios
- Wireless caching in 5G networks to support IoT applications
- Trust & Security solutions for IoT in 5G networks
- Millimeter wave for the IoT
- Channel characteristics and modelling for the IoT
- Experiment reports of IoT in 5G networks
- Reports on IoT and 5G related standardization activities
- SDN and NFV in 5G networks for supporting the IoT
- Edge computing in 5G networks for the IoT
- Full-duplex communications for the IoT
- Cognitive Radio for M2M and IoT
- Short- and long-range communications as enabler for Human-Type-Communication, Machine-Type-Communications and vehicular networks

Important Dates

Full papers due: February 18, 2018

Acceptance notification: March 10, 2018

Camera ready version: March 17, 2018

Submission Guidelines

The workshop accepts only novel, previously unpublished papers. Prospective authors are encouraged to submit a 6-page IEEE conference style paper (including all text, figures, and references) through EDAS submission system (<https://www.edas.info/>). Papers exceeding the maximum length of six pages will be subject to an over-length charge of 100 euro per additional page (a maximum of two pages can be added). The charge shall be paid as an additional fee to ordinary registration by the reference author of the paper. Accepted papers must be presented at the workshop by one of the authors. All papers selected for publication will be published together with European Wireless 2018 proceedings and available on IEEE Xplore database.

Organizers and contact information

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